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## ID-GATE USE CASES

# Id-Gate is a software product for biometric identity verification in access control and management systems

Id-Gate is developed to expand the capabilities of classic access control and management systems with additional modern functions using face recognition technology. Id-Gate allows you to enrich the already implemented and operated access control solutions with new biometric capabilities without significant additional investments.

Id-Gate increases the overall security level of the guarded object, as well as reliability of information about the passage of employees and visitors by transferring data obtained using biometric face recognition terminals to the access control system. Connecting cameras to Id-Gate allows identification of persons in areas with high security requirements, timely notifying security personnel about detected violations of access and intra-facility regimes. In case of an outsider's passage after an authorized employee who opened the door, the system will promptly notify the operator and register the fact of the presence of an outsider and information about him. The analysis of Id-Gate reports on access violations allows employees and the head of the security department to obtain objective information on compliance with the regime without unnecessary waste of time.

The use of biometric terminals with face recognition technology controlled by Id-Gate as access control readers allows organizing various modes of passage for employees and visitors: from a quick and convenient passage in identification mode without using cards, to multifactor authentication using cards and biometric identity confirmation. Id-Gate supports identification and verification modes in bundle with various types of additional identifiers: RFID, NFC, QR-codes.

Availability of ready-made Id-Gate integrations with such access control and management systems as Schneider Electric Security Expert, Bosch Building Integration Systems, Honeywell PRO-Watch, Lenel OnGuard, dormakaba Exos 9300 and allows for automatic data exchange, greatly simplifies installation, configuration and subsequent system operation. The listed integrations are available when installing the basic version of Id-Gate and do not require additional payment or licensing. The list of integrated access control systems is expanding.

### WHAT DOES THE USER GET?

- Fast and secure biometric access for employees and visitors using modern facial identification terminals.
- Automated and convenient control of wearing masks by employees and visitors, temperature measurement at the entrance to the organization or enterprise.
- Easy and quick access for visitors of the organization without unnecessary time expenditures for issuing a one-time pass in the reception area or pass bureau.
- Instant notification of the security service about detection of an unauthorized person or an employee with insufficient access level in the access zone.
- Automatic generation of reports on detected violations of the access regime that occur when several people pass without an appropriate access level, following an authorized employee of the organization.
- History of employees and visitors passages through the guarded object.
- Wide range of identifiers available for usage: face image, RFID and NFC cards, QR code.
- Software integration with operating access control and management systems to easily launch new biometric capabilities without additional fees and licensing.
- In the mode of integration with the access control system, all policies and access rules are automatically applied to new biometric capabilities

Id-Gate is a software solution that performs biometric functions of identification and verification of a person using face recognition technology and provides the results of the verification to the current access control system. Information exchange between systems allows you to synchronize all data about users when they are added, deleted or edited in real-time.



Id-Gate is installed in the mode of connection to one or several access control systems; the solution has a separate modern graphical interface with a wide range of functions and capabilities.



#### A completely new level of security

**RFID-cards or face recognition?** Unlike RFID-cards, an employee's biometric identifier cannot be lost or transferred to third parties. Identification of employees or visitors of the organization by the image of the face in the entrance lobbies or in the allocated rooms allows you to personalize access, to avoid passing through someone else's pass.

The solution to a typical problem. For the security service of an organization that imposes increased requirements for the level of security and safety of valuables there is a widespread situation when people without a pass slip through an open door behind an authorized employee. However, the standard means of the access control system do not allow such an incident to be detected, therefore the situation violates the requirements of the security service.

Connecting to Id-Gate cameras located in areas with increased security requirements allows you to detect and recognize the faces of people who entered, displaying the results of the system in the Access Control System (ACS). The video cameras connected to the system act as virtual access control points that allow contactless checking the access level of a past person. If a person with an insufficient level of access is identified, the system will promptly notify the security service operator, register the presence of an unauthorized person and information about him. Analyzing Id-Gate's reports of access violations allows employees and the chief of security to obtain an objective assessment of compliance with the regime without unnecessary waste of time.

#### Speed and ease of use

The capacity of the entrance groups. It takes less than 1 second to identify an employee or a visitor using the facial image on the Id-Gate biometric terminal, providing high throughput, which is especially important during peak hours at the entrance groups of the facility at the beginning and at the end of the working day. Problems with finding a card and queue at the entrance lobby turnstiles fade into the background.

Easy and quick visitor access. Usually a visitor to an organization needs to apply to the pass office to obtain a guest pass, which, depending on the number of visitors and the workload of the employees issuing the passes, may lead to a long wait for registration and card issuance. Id-Gate receives data about the visitor at the time of the first visit to the organization and deactivates the profile after he leaves. In the case of ACS support visitor management functions with the possibility of temporary activation of access upon an agreed visit request, Id-Gate temporarily activates the guest's biometric profile. The visitor can use the biometric terminal and quickly go to the meeting without wasting time at the pass office. The result is easy and convenient access for the organization's visitors.

#### For large organizations with a distributed structure

Centralized data collection. Large geographically-distributed organizations are characterized by the use of access control and management systems from different manufacturers, while an important task is to organize a centralized collection of information about visits by employees to various offices, representative offices or industrial enterprises. The Id-Gate integration module allows you to connect access control systems from different manufacturers, including organizing a centralized collection of data on the arrival and departure of employees. Id-Gate provides the ability to download reports on the time and facts of site visits in CSV format for transferring the collected information to external information management systems of the organization, for example, WFM, ERP solutions. The integrations supported in the system are available when installing the basic version of Id-Gate and do not require additional payment or licensing from RecFaces.

Open API. Simple and full-featured integration of Id-Gate with any ACS and other external systems is available using an open API for developers and integrators.

#### HOW ID-GATE WORKS:



- 1. Registration of a person in the ACS. In the access control system of the organization a new employee or visitor is registered, a photo is assigned.
- 2. Automatic creation of biometric profile in Id-Gate. The access control and management system automatically send information about the newly registered user to Id-Gate using a ready-made integration module.
- 3. Loading and updating data to terminals. Id-Gate promptly downloads the data of a new user received from the access control system to the terminals, in accordance with his access levels.
- 4. Easy and quick access. Upon successful identification on the biometrical terminal or IP camera, the user passes through. In case of a denial of identification or violation of the access level, the security officer receives a prompt notification, and the incident is recorded in the event log.

Id-Gate automatically receives all information about users, zones and access levels from existing ACS, which greatly simplifies both the launch and subsequent use of the system in comparison with analogs. Operations for the exchange of information between the access control system and Id-Gate do not require operator participation due to the use of ready-made integration modules.

In the event of deleting information about user's profile or temporary deactivation of profile in the ACS, the information is sent to Id-Gate and the biometric profile is blocked accordingly.

#### **Terminals managed by Id-Gate**

The Id-Gate solution is a universal software biometric product that can be installed on any terminal that meets the minimum technical requirements. Biometric terminals operated by Id-Gate provide quick and convenient contactless access by facial image.

When the user approaches the terminal, the Id-Gate software performs the following tasks in 1 second:

- 1. Detection of the user's face, as well as, if necessary, informs about the need to come closer.
- 2. Provides a series of checks for attempted hacking of the terminal using photos or videos.
- 3. Searches for the given user in the preloaded unified database of terminal users.
- 4. Informs the user about the identification results by displaying information on the screen, sound and light indication.
- 5. Sends information about the results of identification to the ACS for admitting a user or denying admission.

The modern computing power of the terminal and specialized binocular cameras ensure that all of these procedures are performed in less than 1 second, which in turn ensures the highest comfort for users and the level of security for the organization.

Biometric terminals can be equipped with a thermal imaging camera to measure temperature. This allows the system to detect cases of temperature excess among users, promptly inform the responsible employees of the organization about this and keep an automatic electronic log. Also, the recognition algorithm gives an operational signal to the security service if a person enters the organization without a mask. The Id-Gate solution can be configured in such a way that doors or turnstiles will not be opened in front of a person without a mask.

#### **Terminal operating modes**

Biometric terminals can operate in several modes:

- 1. Identification: search by face image and comparison with the base of profiles of existing users. An easy and convenient way to suit most installations. In the identification mode, the received image of the user's face is compared with all the profiles loaded into the Id-Gate system, based on the results of a successful operation, the information is transferred to the ACS to provide access.
- 2. Verification: biometric confirmation of the user's identity. Two-factor authentication for enhanced security. In the verification mode, the user presents an RFID, NFC access card or QR-code, after which the system compares his current face image with the reference image loaded into the biometric profile database. Thus, a mode of increased security is achieved two-factor authentication.

### EXAMPLE OF THE ID-GATE INTERFACE

## Id-Gate dashboard

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A Dashboard						
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## Id-Gate profile database

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## "Visitors on the territory" report

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## "Exits and entries of visitors" report

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## "Access point passages" report

## Terminal graphical interface



## TRANSPORT INFRASTRUCTURE

- Increasing the level of security of a transport infrastructure facility by using biometric terminals and personalized identifiers instead of RFID cards
- Prompt informing of the security service of the transport infrastructure facility about the detection of unauthorized persons in office premises and premises with limited access
- Informing the security service about the detection of an unauthorized person from among the employees in areas with limited access levels
- Automatic generation of reports on revealed facts of violation of regulations for access to service areas of a transport infrastructure facility
- Availability of ready-made ld-Gate integrations with access control and management systems provides ease of implementation and exploitation
- Ability to connect several access control systems from different manufacturers to Id-Gate at geographically distributed transport infrastructure facilities for centralized collection of information about access events

### USE CASE:

Transport security is the number one topic in the entire transport and logistics industry. This applies to both passenger transportation and transportation of goods. Ensuring safety by relying on the human factor is risky: the likelihood of errors and incidents is too high. Transport security can be divided into two main areas: the first is the control of passenger traffic, the second is to ensure the safety of the infrastructure of the transport facility. Both directions play an extremely important role in ensuring the safety of a transport infrastructure facility. The Id-Gate solution was created to organize reliable control of personnel access to office premises, areas with access restrictions and increased requirements for the level of security, as well as effective control of employees' compliance with the transport infrastructure of access and intra-facility regimes, in order to ensure the safe operation of vehicles, infrastructure transport facility, control and traffic management complexes.

Biometric terminals with face recognition technology controlled by Id-Gate allow you to quickly and safely provide personalized access to an employee in service areas, areas with restricted access for unauthorized persons. Unlike RFID-cards, an employee's biometric identifier is inalienable, it cannot be lost or transferred to third parties.

One of the significant and difficult problems that security personnel systematically encounter, especially at heavily guarded facilities, is the passage of unauthorized employees into a restricted area. As a rule, behind one of the employees, with the appropriate access level, other employees who do not have the required access level pass through the opened door. The classic solution to this problem, for example, the placement of airlock cabins, are quite expensive and not always applicable. That is why ld-Gate provides additional capabilities for automatic control of compliance with the intra-facility regime. A camera located in the protected area is connected to the ld-Gate. When employees pass through, the system detects a face image, performs identification and compares the employee's access level with the required access level in the ACS. If the system recognizes an employee with insufficient access level or an unauthorized person in the protected area, the information is promptly sent to the security personnel. The system can also generate a report on detected violations for the required period of time. Thus, Id-Gate allows you to automate the control of compliance with the intra-facility regime at a transport infrastructure facility without significant capital expenditures.

Id-Gate can also be used as a solution to automate and accelerate passenger boarding. A passenger can provide the airline with his photographic image when purchasing a ticket, along with other necessary personal data. Special biometric terminals installed on automatic turnstiles will provide quick contactless recognition of a registered passenger using a face image and automatic admission to the boarding area, thereby increasing convenience and reducing the overall operation time before boarding.

Ready-to-use Id-Gate integrations with various access control and management systems allow you to quickly and easily configure employee access modes and ensure convenient subsequent operation.

Id-Gate is designed and developed to increase the level of security in critically imported areas of infrastructure of transport security facilities.

## EDUCATIONAL FACILITIES

- Convenient passage of students to an educational facility using face recognition terminals
- Increasing the level of security of an educational facility by abandoning RFID-cards
- Organization of accounting of service consumption by students without RFID-cards with face recognition technology
- Prompt notification of security personnel in case of detection of an unauthorized person in the main or administrative premises of an educational facility
- Formation of reports in Id-Gate for analysis of student attendance

#### USE CASE:

Nowadays RFID-cards or bracelets are mainly used as a pass to an educational facility. At the same time, pupils and students often lose them, forget at home or unintentionally spoil them. Parents are forced to check daily whether the child has a card or bracelet with them. The procedure for registering and issuing a new card to replace the lost one also takes some time. The use of contactless terminals with face recognition function controlled by Id-Gate allows the student to quickly and conveniently go to the educational facility without unnecessary difficulties.

A student's card can fall into the hands of a stranger, whose access to an educational facility is simply not provided or prohibited due to possible threat to the students. Id-Gate allows you to provide access to educational facility only for authorized users and thus increase the level of its security. In addition to terminals, Id-Gate allows you to connect existing or newly installed IP cameras of CCTV systems. When a stranger appears in the field of view of such a camera on the territory of an educational institution who is not a student or an employee, the system will instantly send a notification to the security service. Thus, the use of Id-Gate increases the awareness and speed of security personnel's reaction to security threats in an educational facility.

The student card can be linked to the accounting of the consumption of school services, for example, food. It is convenient as it allows parents to know how their child eat in the school cafeteria and buffet. Plus, they can plan a hot meal order, replenish his personal account and keep track of his spending and purchases in the cafeteria. The student is not required to use cash. However, if the child has forgotten the card, then the accounting of the consumption of services becomes much more complicated, it is necessary to keep "paper" records and then write off the funds from the personal account for the previous meals. Id-Gate terminals provide simple student identification for accounting of consumed services, and open integration methods allow transferring the received data to external information systems.

Id-Gate is designed and developed to increase the level of security and provide easy access for students and staff of educational facilities.

## HEALTHCARE FACILITIES

- Facial identification of employees and visitors at the entrance to a medical facility for increased security
- Zoning of premises of a medical facility using terminals with face recognition technology, flexible access settings for different categories of medical personnel, including the ability to configure access with a medical mask
- Receiving prompt notifications about the detection of unauthorized persons in areas with restricted access: warehouses with medicines, laboratories, technical and administrative premises
- Reporting in Id-Gate allows you to analyze statistics:
  - the arrival and departure of employees to assess the time they spent in the medical facility
    the number of visitors for a certain period of time

### USE CASE:

Any medical facility is a place of mass stay of people, especially patients who may come for an appointment only once or visit the same clinic on a regular basis. It is important to ensure a safe and comfortable stay for both doctors and patients.

Id-Gate allows you to organize convenient contactless access in a medical institution using biometric terminals with face recognition function. Only registered employees and patients with the appropriate access level will be able to enter the territory of the medical institution, to the allocated blocks and premises. When using Id-Gate face recognition terminals, in combination with automatic medical doors, no physical contact is required for the doctor's passage, while the system can be configured in such a way that personnel without medical masks will be restricted in access.

Id-Gate connected to the cameras of the video surveillance system aimed at the entrance to the medical facility, allows you to promptly inform the security service about the detection of a person who previously committed illegal actions and take timely measures. The system will also make it possible to promptly notify security personnel in case of detection in specially guarded premises of an unauthorized employee or person who has fallen into the field of view of the camera.

Id-Gate allows you to transfer information about a recognized visitor to medical information systems using open methods of REST API integration, this provides the administration of the institution with the ability to manage the quality and speed of service for regular visitors. Also, the system can generate various forms of reports:

- data on the arrival and departure of employees, which makes it possible to estimate the time spent by an employee in a medical facility;
- a report on the number of visitors' passes for a certain period of time.

Ready-to-use Id-Gate integrations with various access control and management systems allow you to quickly and easily configure access modes for employees and visitors, and ensure convenient subsequent operation.

Id-Gate is designed and developed to increase the level of security and provide easy access for students and staff of medical facilities.

## FINANCIAL INSTITUTIONS,

GOVERNMENT FACILITIES, INDUSTRIAL ENTERPRISES, SECURITY AGENCIES

- Increasing the level of enterprise security due to personalized access for employees and visitors
- Easy contactless access using a face recognition terminal in 1 second
- Increasing the throughput of entrance groups during peak hours up to 30 people per minute through 1 turnstile
- Automatic notification of the security service about the detection of an unauthorized person in an area with high security requirements
- Simple and fast connection of existing access control systems
   integrated with Id-Gate
- The ability to connect to Id-Gate several access control systems from different manufacturers at geographically distributed security facilities for centralized collection of information about access events
- Formation of reports on the arrival and departure of employees to automate the accounting of working hours

#### **USE CASE:**

Safety at specially protected enterprises is one of the key priorities of the management and employees of specialized services. As a rule, the procedure for access of employees, contractors and visitors to the facility is detailed in the regulations for access and intra-facility regimes, and their observance is monitored by security personnel. However, during peak hours, when hundreds and thousands of employees pass through the checkpoint in a short period of time, it becomes impossible to effectively control who entered the enterprise using an employee's RFID-card. The task of automatic identification of a passing person can be successfully solved using a biometric terminal controlled by Id-Gate or an IP camera connected to Id-Gate, which, working as sources of obtaining biometric data, allows you to identify or confirm the identity of an employee using a facial image. Based on the result of the biometric check, the system will give a command to pass or notify the security service about an attempt of unauthorized access, with the registration of this fact in the event log. Used cameras or terminals allow not only to quickly verify the identity of an employee or visitor, thereby increasing the overall level of organization's security, but also significantly increase the throughput of the checkpoint since the biometric system takes no more than 1 second.

Also, one of the significant and difficult problems to solve that security personnel systematically encounter, especially at heavily guarded enterprises, is the passage of unauthorized employees into a restricted area. As a rule, behind one of the employees, with the appropriate access level, other employees who do not have the required access level pass through the opened door. Classic solution to this problem – the placement of airlock cabins, are quite expensive and not always applicable. Therefore, Id-Gate provides additional capabilities for automatic control of compliance with the intra-facility regime. An IP camera located in the protected area is connected to the Id-Gate. When employees pass, the system detects a face image, performs identification and compares the employee's access level or an unauthorized person in the protected area, information about the incident is promptly sent to the security personnel. The system can also generate a report on detected violations for the required period of time. Thus, Id-Gate allows you to automate the control of compliance with the on-site security regime of an enterprise without significant capital expenditures and lengthy implementations.

For large and geographically distributed objects, the use of control systems and access control from different manufacturers is typical, however, the task of centralized collection of information on the arrival and departure of employees may be more relevant. Id-Gate is integrated with a large number of access control and management systems, integration modules are supplied in the basic version of Id-Gate software and do not require additional expensive licenses. Therefore, various operated enterprise access control systems can be connected to the Id-Gate. At the same time, reports on the arrival or departure of employees in Id-Gate can be generated centrally.

The availability of ready-made Id-Gate integrations with access control and management systems allow you to automatically synchronize data and quickly start using the solution. Security personnel continues to work in the familiar graphical interfaces of access control systems, which receive information about events from Id-Gate. All this provides simplicity of solution's exploitation.

Id-Gate is designed and developed for convenient and safe access for employees and visitors, automatic control over the admission of the intra-facility mode in the organization with increased security requirements.

### LICENSING POLICY

The **Id-Gate** system is a complete software product and is distributed by transferring electronic license keys. Such keys are required for the core element of the Id-Gate system, as well as for sources of biometric data.



License for the Id-Gate system core element with the biometric database

Source for obtaining biometric data



Biometric terminal or IP camera connection license

#### **Technical support**



- Dealing with emergencies during the Id-Gate system operation
   Providing Id-Gate updates and
- documentation
- 3. Consultations while setting up and configuring the solution